K101777 C-1

JUL 2 3 2010

510(k) Summary

This 510(k) Summary is being submitted in accordance with the requirements of 21 CFR 807.92.

Submitter:

Medtronic Vascular 3576 Unocal Place

Santa Rosa, CA 95403

USA

Contact Person:

Lucinda L. Fox

Regulatory Affairs Manager

Medtronic Vascular 3576 Unocal place Santa Rosa, CA 95403

Phone: 707.591.7028 Fax: 707.591.7138

lucinda.l.fox@medtronic.com

Date Prepared:

June XX, 2010

Trade Name:

Pioneer Plus Catheter

Common Name:

Diagnostic Ultrasound Transducer and Percutaneous Catheter

Classification Name:

Diagnostic Ultrasound Transducer and Percutaneous Catheter

Predicate Device:

Pioneer Plus Catheter, K081804 (cleared August 5, 2008)

Device Description:

Percutaneous catheter that utilizes IVUS imaging and a hollow Nitinol needle to facilitate redirection and placement of a 0.014" OTW guidewire into peripheral vessels. The guidewire can then facilitate placement of subsequent devices. The device is a single use, sterile

catheter.

Statement of Intended Use:

The Pioneer Plus catheter is intended to facilitate placement and positioning of catheters within the peripheral vasculature. The Pioneer Plus catheter also provides an intraluminal cross-sectional ultrasound image of the area of interest to facilitate placement of guidewires beyond stenotic lesions (e.g., sub-total, total or chronic total

occlusions) prior to additional intervention (i.e. PTCA, stent, etc.). The Pioneer Plus catheter is not indicated for use in the coronary or

cerebral vasculature.

Summary of Technological

Characteristics:

The subject and predicate Pioneer Plus Catheters are identical in terms of indications for use, intended use, performance specifications, and material specifications. Both devices are designed to facilitate placement of catheters in the peripheral vasculature and both are sterile, single-use devices with a working length of 120 cm, IVUS

capability, and Nitinol needle/guide tip.

Summary of Non-clinical Data:

A Warning and mitigation steps for managing a needle retraction failure were added to the Instructions for Use. The modifications provide additional safety information to clinicians to facilitate safe use of the Pioneer Plus Catheter. The changes are being implemented based on postmarket clinical feedback and are associated with a Field Corrective Action. No changes were made to the intended use or indications for use, nor were changes made to the product's material

Medtronic Vascular Pioneer Plus Catheter Special 510(k) – Changes Being Effected Page 1 of 2

510(k) Summary

or performance specifications. Manufacturing process improvements were implemented on the needle subassembly to enhance production consistency and insure the product continues to meet its original specifications. Testing on the needle subassembly was completed and confirmed the process changes did not negatively affect its performance or functionality.

Conclusion from Data:

The information above demonstrates equivalence and supports a determination of substantial equivalence between the Subject and Predicate Pioneer Plus Catheters.



Food and Drug Administration 10903 New Hampshire Avenue Document Control Room –WO66-G609 Silver Spring, MD 20993-0002

'JUL 2 3 2010

Medtronic Vascular c/o Ms. Lucinda Fox Regulatory Affairs Manager 3576 Unocal Place Santa Rosa, CA 95403

Re: K101777

Trade/Device Name: Pioneer Plus Catheter Regulation Number: 21 CFR 892.1570

Regulation Name: Diagnostic Ultrasonic Transducer

Regulatory Class: Class II Product Code: ITX, DQY Dated: June 24, 2010 Received: June 25, 2010

Dear Ms. Fox:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. However, we remind you that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act

or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please go to http://www.fda.gov/AboutFDA/CentersOffices/CDRH/CDRHOffices/ucm115809.htm for the Center for Devices and Radiological Health's (CDRH's) Office of Compliance. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to

http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm.

Sincerely yours,

Bram Zuckerman, M.D.

Director

Division of Cardiovascular Devices

Mynna R. V. Man.

Office of Device Evaluation

Center for Devices and

Radiological Health

Enclosure

Indications for Use

510(k) Number / /0 /7 7 7

Device Name: Pioneer Plus Catheter

Indications for Use:

The Pioneer Plus catheter is intended to facilitate placement and positioning of catheters within the peripheral vasculature. The Pioneer Plus catheter also provides an intraluminal cross-sectional ultrasound image of the area of interest to facilitate placement of guidewires beyond stenotic lesions (e.g., sub-total, total or chronic total occlusions) prior to additional intervention (i.e. PTCA, stent, etc.). The Pioneer Plus catheter is not indicated for use in the coronary or cerebral vasculature.

Prescription UseX_	AND/OR	Over-The-Counter Use
(Part 21 CFR 801 Subpart D)		(21 CFR 807 Subpart C)
(PLEASE DO NOT WRITE B NEEDED)	ELOW THIS	LINE-CONTINUE ON ANOTHER PAGE IF
Concurrence of CDRH, Office of Device Evaluation (ODE)		
	(Div	vision Sign-Off) ision of Cardiovascular Devices

110(k) Number K101777